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PPLICATION NO.	CATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/851,261		05/08/2001	Koichi Mukasa	SUGIM33.001 AUS 2985 EXAMINER	
20995	7590	12/22/2003			
		NS OLSON & BEA	. TRAN, LEN		
2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614				ART UNIT	PAPER NUMBER
				1725	
			•	DATE MAILED: 12/22/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appli	cation N .	Applicant(s)	- (t					
055			51,261	MUKASA ET AL.						
	Office Action Summary	Exam	in r	Art Unit						
		Len		1725						
Period fo	The MAILING DATE of this communi or Reply	cation appears or	the cover sheet with t	he correspondenc addres	is					
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNION IN SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30 period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In runication. of days, a reply within the tutory period will apply a vill, by statute, cause the	no event, however, may a reply e statutory minimum of thirty (30 ind will expire SIX (6) MONTHS e application to become ABANI	be timely filed)) days will be considered timely, from the mailing date of this commu	nication.					
1)🛛	Responsive to communication(s) filed	d on <u>8/23/03</u> .								
2a)⊠	∑ This action is FINAL. 2b) This action is non-final.									
3)[3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Disposit	ion of Claims									
5)□ 6)⊠ 7)□	 ✓ Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. ☐ Claim(s) is/are allowed. ✓ Claim(s) 1-11 is/are rejected. ☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement. 									
Applicati	ion Papers									
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	a) accepted o tion to the drawing the correction is re	(s) be held in abeyance. quired if the drawing(s) i	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.	• •					
Priority ι	ınder 35 U.S.C. §§ 119 and 120									
* \$ 13) \[A \$ 3 a 14) \[A	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority of the certified copies of the priority of application from the Internation of the attached detailed Office action acknowledgment is made of a claim for ince a specific reference was included of CFR 1.78. 1) The translation of the foreign language acknowledgment is made of a claim for the complete the complet	locuments have locuments have f the priority docial Bureau (PCT for a list of the cr domestic priorit in the first sente guage provisionar domestic priorit	been received. been received in Applia uments have been received in Applia Rule 17.2(a)). certified copies not recey under 35 U.S.C. § 1 nce of the specification I application has been y under 35 U.S.C. §§	cation No eived in this National Stageived. 19(e) (to a provisional apport or in an Application Data received. 120 and/or 121 since a sp	olication) a Sheet. pecific					
Attachmen	t(s)									
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449) Pa	•		nary (PTO-413) Paper No(s) nal Patent Application (PTO-152						

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-3, 7, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 04 055 078 A, and further in view of JP 2000 042769.
- JP '078 discloses a laser welding head controlling system comprising a laser irradiating body with a laser inlet and outlet, plural semiconductor lasers to oscillate plural linear laser beams configured to be crisscrossed (interpret as the beams to hit the seams) over the seam line

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for measuring a welding state, am ITV camera, and an image processor to process the image of the welding state (figures and abstract).

However, JP '078 fails to disclose a CCD camera with a band pass filter, a condenser, and a processor using CAD data.

JP '769 discloses the method of using a CCD camera with a band pass filter, a condenser for the purpose of which condenses the light emitted from a weld zone as becomes the optical axis and the same axle of a laser beam which is irradiated by the work is formed. The purpose of the band pass filter is to change into the voltage signal according to light receiving intensity with the photodiode and amplifier as an optoelectric transducer, and is outputted to the welding state judging processor.

Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to provide a condenser and band pass filter as taught by JP '769, in JP '068 in order to send signal of the welding state to the processor.

4. Claims 4-6, 8 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP '068 as applied to claim 4, 7, and 10 above in paragraph 3, and further in view of Anderson et al (US 5,938,446).

JP '068 fails to teach using CAD for control welding. However, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to have CAD being part of the processing unit, since CAD is well known in any data retrieving art, to be

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used as a data collection software. Therefore, incorporating the CAD data software would have been a desired choice or depending on the allowable expense of the project.

Furthermore, Anderson et al is introduced to show the importance of CAD for read-off of data which is input to a CAD program. Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to provide CAD as taught by Anderson et al, in JP '068 in order to achieve a quick response.

Response to Arguments

5. Applicant's arguments filed 8/20/03 have been fully considered but they are not persuasive.

Applicant's argument regarding to the semiconductor lasers are disposed to measure the welding state is unclear, since the examiner's interpretation of the claimed language indicates that the welding line is detected initially and then based on the image, a signal is transferred to the welding head for welding, as claimed in claim 3 and 10. Therefore, based on the broadest interpretation of the claims, claims 1-11 remain rejected. The argument set forth by applicant is not in commensurate with the scope of the claims.

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Inquiry

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Len Tran whose telephone number is (703)605-1175. The

examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tom Dunn can be reached on 703-308-3318. The fax phone number for the

organization where this application or proceeding is assigned is (703)305-3602.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703)308-0661.

Len Tran

Examiner

Art Unit 1725

LT

December 18, 2003

Kiley Stoner A.4.1725 Hillyton 12/18/03